A.2.37 AOC 24

Description

AOC 24 is located just northwest of Tank 4 in the Main Yard where a release was identified at the fire hydrant located in this area. During an excavation around a fire hydrant to locate and repair a leak in the Refinery Fire Water System, oily soil on the sidewalls and a thin layer of LNAPL floating on water were observed in a 10-foot by 10-foot by 4-foot deep excavation. Approximately 15 cubic yards of oily soil were excavated and placed on the Oily Soil Pad. The water/LNAPL was removed and discharged into the OWSS. The excavation was subsequently backfilled with clean soil and covered with gravel.

As shown on Figure A.2.33 and summarized on Table A.2.33, data from one soil boring, three soil samples, and one groundwater sample from a monitoring well have been used to determine if measurable LNAPL is present at this AOC. In addition, relevant data from other investigations and adjacent SWMUs and AOCs are also shown on Table A.2.33 for delineation purposes. The three soil samples collected during the Full RFI were analyzed for TCL VOCs and SVOCs, and TAL metals. One soil sample was also analyzed for SPLP metals and physical characteristics[1]. The groundwater sample was analyzed for TCL VOCs and SVOCs, TAL metals, and water quality parameters.

Soils

None of the soil samples contained exceedances of the soil delineation criteria, except for naturally-occurring iron. No evidence of staining or odors was observed in the soil boring for S0863/MW-154.

The SPLP sample from MW-154 (S0853C2) contained 2.59 mg/L of naturally-occurring aluminum which slightly exceeds the applicable criterion for SPLP aluminum (2.2 mg/L)[2]. No other metals were detected above the applicable SPLP criteria in this sample. Therefore, the soils are not a source of metal impacts to groundwater.

Groundwater

Results of the groundwater sample collected from MW-154 showed no exceedances of the groundwater delineation criteria. LNAPL was not detected in this well and there is no evidence of LNAPL at this AOC.

[1]Physical characteristics specified in Appendix A, Task IV of Module III of the HWSA Permit included saturated and unsaturated permeability tests, moisture content, relative permeability, bulk density, porosity, soil sorptive capacity, CEC, TOC, pH, Eh and grain size distribution.
[2]Based on the groundwater criterion for aluminum (200 ug/L), DAF = 11.

Summary

In summary, no exceedances of the delineation criteria were detected in soil and water samples from within this AOC. Chevron recommends no further action for this AOC.